



# ASCP-MLT<sup>Q&As</sup>

MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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### QUESTION 1

This integrity of this specimen is compromised. The unit cannot be used.

What action should be taken if a large clot is noticed in a red blood cell unit while the product is being prepared for release to the patient?

- A. Issue the product as you normally would but with a filter.
- B. Issue the product, but note the presence of the clot in the computer records.
- C. Filter the product prior to issue and record the process.
- D. Do not issue the product.

Correct Answer: D

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### QUESTION 2

Coumarin derivatives inhibit the vitamin K dependent Factors (II, VII, X) which can be measured with the PT and monitored frequently with the INR assay.

Hematology

Warfarin-based (coumarin derivative) oral anti-coagulant therapy is commonly monitored with :

- A. APTT
- B. PT/INR
- C. APTT and PT
- D. Thrombin time

Correct Answer: D

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### QUESTION 3

*S. aureus* does not have capsular material as a defense mechanism. *H. influenzae*, *K. pneumoniae*, *N. meningitidis*, and *S. pneumoniae* each have capsular material use as a defense mechanism. This capsular material is an antiphagocytic

substance which helps deter bacterial death by macrophages and other white blood cells.

Microbiology

Which one of the following does NOT have capsular material as a defense mechanism?

- A. *H. influenzae*
- B. *K. pneumoniae*



C. N. meningitidis

D. S. aureus

E. S. pneumoniae

Correct Answer: E

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#### QUESTION 4

Calculation:

Cells Counted (in this case the average of both sides) X dilution factor (in this case 100) / # of squares counted (in this case 9) X area of each square (1mm<sup>2</sup>) X 0.1mm (depth factor)

So, in this problem:

$158 \times 100 / 9 \times 1 \times 0.1\text{mm} = 17555.55/\text{mm}^3$  (can be converted to  $17.5 \times 10^9/\text{L}^*$ )

\*There are 1,000,000 mm<sup>3</sup> in a liter (L). So  $17555.55 \times 1,000,000 = 17.5 \times 10^9/\text{L}$

A manual white blood cell count was performed by the hematology technologist. The cell counts for both sides were 152 and 164 respectively. All nine large squares were counted on each side. The dilution for this kit was pre-measured at

1:100.

What should the technologist report as the white cell count?

A.

$177.5 \times 10^9/\text{L}$

B.

$17.5 \times 10^9/\text{L}$

C.

$1.75 \times 10^9/\text{L}$

D.

$175 \times 10^9/\text{L}$

Correct Answer: B

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#### QUESTION 5

The disc diffusion method for antibiotic susceptibility testing is the Kirby-Bauer method. The agar used for this procedure is Mueller-Hinton. Which of the following media is commonly used when performing the Kirby-Bauer disk diffusion?



- A. Chocolate agar
- B. Mueller-Hinton agar
- C. Thayer-Martin agar
- D. MacConkey agar

Correct Answer: B

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